

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
Potomac and Shenandoah River Basins			
TMDL Watershed Name:	Falls Hollow		
TMDL Group ID:	01601		
VAV-B11R_XED01A02	Falls Hollow	AUGUSTA CO	Falls Hollow from the headwaters downstream to its confluence with Buffalo Branch.
VA Overall AU Category: Use	4C	Impairment 3.52 MILES	TMDL Group ID
Aquatic Life	Benthic-Macroinvertebrate Bioassessments (Streams)	Sources: Drought-related Impacts	01601
			Impairment Specific Comments and/or Impairment Specific VA Category
			The USFS has determined this impaired to be natural due to drought conditions.
TMDL Watershed Name:	Lake Frederick		
TMDL Group ID:	01646		
VAV-B56L_CRO01A04	Lake Frederick	FREDERICK CO	Lake Frederick
VA Overall AU Category: Use	4C	Impairment 120.00 ACRES	TMDL Group ID
Aquatic Life	Oxygen, Dissolved	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	01646
			Impairment Specific Comments and/or Impairment Specific VA Category
			Dissolved oxygen impairment due to natural conditions (4C)
TMDL Watershed Name:	Lake Shenandoah		
TMDL Group ID:	01611		
VAV-B29L_CNG01A04	Lake Shenandoah	ROCKINGHAM CO	Lake Shenandoah
VA Overall AU Category: Use	4C	Impairment 33.33 ACRES	TMDL Group ID
Aquatic Life	Oxygen, Dissolved	Sources: Changes in Ordinary Stratification and Bottom Water Hypoxia/Anoxia	01611
			Impairment Specific Comments and/or Impairment Specific VA Category
			The lake has a dissolved oxygen impairment in the Hypolimnion during the summer months due to natural conditions (4C).

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Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
Potomac and Shenandoah River Basins			
TMDL Watershed Name:	Pine Hill Creek		
TMDL Group ID:	00647		
VAP-A31R_PIN01A00	Pine Hill Creek Watershed	KING GEORGE CO WESTMORELAND CO	Pine Hill Creek and tributaries from rivermile 8.36 to its mouth at Rosier Creek. Segment altered in 2006 due to Natural Conditions Assessment reports.
VA Overall AU Category: Use Aquatic Life	4C Impairment pH	9.90 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00647 Impairment Specific Comments and/or Impairment Specific VA Category VAP-A31R-01 During the 2006 cycle, two Natural Condition studies were performed on Pine Hill Creek for DO and pH. The reports recommend that Pine Hill Creek below rivermile 8.36 down to its mouth at Rosier Creek and its tributaries be reclassified as Class VII swampwaters. Until the reclassification, the segments will be assessed as Cat. 4C waters.
TMDL Group ID:	00908		
VAP-A31R_PIN01A00	Pine Hill Creek Watershed	KING GEORGE CO WESTMORELAND CO	Pine Hill Creek and tributaries from rivermile 8.36 to its mouth at Rosier Creek. Segment altered in 2006 due to Natural Conditions Assessment reports.
VA Overall AU Category: Use Aquatic Life	4C Impairment Oxygen, Dissolved	9.90 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00908 Impairment Specific Comments and/or Impairment Specific VA Category VAP-A31R-01 During the 2006 cycle, two Natural Condition studies were performed on Pine Hill Creek for DO and pH. The reports recommend that Pine Hill Creek below rivermile 8.36 down to its mouth at Rosier Creek and its tributaries be reclassified as Class VII swampwaters. Until the reclassification, the segments will be assessed as Cat. 4C waters.

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Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
Potomac and Shenandoah River Basins			
TMDL Watershed Name:	Skidmore Fork		
TMDL Group ID:	40001		
VAV-B20R_SKD03A00	Skidmore Fork	ROCKINGHAM CO	Skidmore Fork from the headwaters downstream to the upper end of Switzer Lake.
VA Overall AU Category: Use	4C	Impairment 5.41 MILES	TMDL Group ID 40001
Aquatic Life	Benthic-Macroinvertebrate Bioassessments (Streams)	Sources: Drought-related Impacts	Impairment Specific Comments and/or Impairment Specific VA Category
TMDL Watershed Name:	Toms Branch		
TMDL Group ID:	01614		
VAV-B31R_TMS01A02	Toms Branch	AUGUSTA CO	Toms Branch from the headwaters downstream to its confluence with an unnamed tributary above the upper end of normal pool of the Toms Branch Dam.
VA Overall AU Category: Use	4C	Impairment 2.69 MILES	TMDL Group ID 01614
Aquatic Life	Benthic-Macroinvertebrate Bioassessments (Streams)	Sources: Drought-related Impacts	Impairment Specific Comments and/or Impairment Specific VA Category
TMDL Watershed Name:	Tunnel Hollow X-Trib		
TMDL Group ID:	97000		
VAV-B13R_XEI02A02	Tunnel Hollow x-trib	AUGUSTA CO	Tunnel Hollow x-trib from the headwaters downstream to its confluence with Tunnel Hollow
VA Overall AU Category: Use	4C	Impairment 0.20 MILES	TMDL Group ID 97000
Aquatic Life	Benthic-Macroinvertebrate Bioassessments (Streams)	Sources: Drought-related Impacts	Impairment Specific Comments and/or Impairment Specific VA Category

Note: Assessment Units may extend across jurisdictional boundaries.

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Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:			
TMDL Group ID:	10125		
VAP-G01L_FAC01A98	Falling Creek Reservoir	CHESTERFIELD CO RICHMOND CITY	Falling Creek Reservoir
VA Overall AU Category:	4C		
Use	Impairment	110.00 ACRES	TMDL Group ID
Aquatic Life	Oxygen, Dissolved	Sources:	10125
Impairment Specific Comments and/or Impairment Specific VA Category			
TMDL Watershed Name:	Amelia Lake		
TMDL Group ID:	90008		
VAP-J07L_XLW01A00	Amelia Lake	AMELIA CO	JAMES RIVER BASIN
VA Overall AU Category:	4C		
Use	Impairment	110.00 ACRES	TMDL Group ID
Aquatic Life	Oxygen, Dissolved	Sources: Dam or Impoundment	90008
Impairment Specific Comments and/or Impairment Specific VA Category			
VAP-J07L-01			
During the 2006 cycle, the DO violation rate at 2-XLW000.60 was 0/28 in the epilimnion and 22/31 in the hypolimnion (when stratified). The TSIs were all acceptable (TP = 47, Chl_a = 57, Secchi = 56), therefore the lake should be assessed as Cat. 4C (impaired by pollution.)			
TMDL Watershed Name:	Briery Creek Lake		
TMDL Group ID:	00743		
VAC-J05L_BRI01L98	Briery Creek Lake	PRINCE EDWARD CO	Briery Creek Lake
VA Overall AU Category:	4C		
Use	Impairment	843.65 ACRES	TMDL Group ID
Aquatic Life	Oxygen, Dissolved	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	00743
Impairment Specific Comments and/or Impairment Specific VA Category			

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Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Canal Swamp		
TMDL Group ID:	01158		
VAP-G06R_CNS01A02	Canal Swamp	HENRICO CO	Canal Swamp from its headwaters to its mouth at White Oak Swamp.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	2.94 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 01158 Impairment Specific Comments and/or Impairment Specific VA Category VAP-G06R-05 Canal Swamp was assessed as not supporting of the Aquatic Life Use in 2004 based on pH standard violations at USGS station 02042454 and DEQ station 2-CNS000.54 (Portugee Road). During the 2006 cycle, the segment remained impaired with a violation rate of 13/15 at 2-CNS000.54. However, the Natural Conditions Assessment for White Oak Swamp was completed and recommends that White Oak Swamp and its tributaries be reclassified as Class VII swampwaters. Until the standards can be revised, the watershed will be considered Cat. 4C for pH.
TMDL Watershed Name:	Crawford Branch		
TMDL Group ID:	01698		
VAW-I22R_CRD01A04	Crawford Branch	BOTETOURT CO	Crawford Branch headwaters downstream to its mouth on Craig Creek.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Benthic-Macroinvertebrate Bioassessments (Streams)	1.76 MILES Sources: Drought-related Impacts	TMDL Group ID 01698 Impairment Specific Comments and/or Impairment Specific VA Category Category 4C. Comments provided by the US Forest Service (2004 IR) recommends not listing this site as drought conditions produced results indicating impairment- Category 4C.

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Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Diascund Creek Reservoir		
TMDL Group ID:	01169		
VAP-G09L_DSC01A00	Diascund Creek Reservoir	JAMES CITY CO NEW KENT CO	Diascund Creek Reservoir
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	1700.00 ACRES Sources: Changes in Ordinary Stratification and Bottom Water Hypoxia/Anoxia	TMDL Group ID 01169 Impairment Specific Comments and/or Impairment Specific VA Category VAP-G09L-01 Dissolved oxygen violations in bottom waters: The lake is subject to dissolved oxygen violations due to natural stratification. No TMDL is needed.
TMDL Watershed Name:	Douthat Lake		
TMDL Group ID:	01688		
VAW-I09L_WLN01A00	Douthat Lake	BATH CO	Douthat Lake located in Douthat State Park
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	46.68 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 01688 Impairment Specific Comments and/or Impairment Specific VA Category Category 4C
TMDL Watershed Name:	Graham Creek Reservoir		
TMDL Group ID:	00763		
VAC-H04L_GRA01A02	Graham Creek Reservoir	AMHERST CO	Graham Creek Reservoir from its impounding structure upstream to its backwaters.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	47.58 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00763 Impairment Specific Comments and/or Impairment Specific VA Category

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Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Holiday Lake		
TMDL Group ID:	50015		
VAC-J01L_HOL01A06	Holiday Lake	APPOMATTOX CO BUCKINGHAM CO	Holiday Lake State Park
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	115.28 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 50015 Impairment Specific Comments and/or Impairment Specific VA Category
TMDL Watershed Name:	Lake Burnt Mills - Lower (PWS)		
TMDL Group ID:	76148		
VAT-G14L_NWB02A06	Lake Burnt Mills - Lower (PWS)	ISLE OF WIGHT CO NORFOLK CITY	West of Chuckatuck. Middle northwest portion of Western Branch Reservoir system. Downstream of Rt 603, upstream of Western Branch Reservoir. Impounded headwaters tributary of the Nansemond River. Portion of Norfolk water supply reservoirs.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	187.00 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 76148 Impairment Specific Comments and/or Impairment Specific VA Category The Aquatic Life Use is impaired based on dissolved oxygen concentrations below the DEQ minimum allowable instantaneous criteria of 4.0 mg/l. The cause of the impairment is determined to be by pollution rather than pollutants, and will not require development of a TMDL. Failure to meet the dissolved oxygen concentrations below the minimum allowable instantaneous criteria as recorded at the DEQ (Lake) monitoring station @ 2-NWB007.04 (42 vioates / 68 observations) and City of Norfolk (MUN) monitoring stations @ BM1 (19 vioates / 34 observations) . TSI calculation for 2-NWB007.04, (epilimnion) indicates impairment NOT due to anthropogenic sources { Category 4C} and Eutrophic Category = Mesotrophic (TSI 40-60).

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Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Lake Moomaw, Jackson River		
TMDL Group ID:	01686		
VAW-I03L_JKS01A02	Lake Moomaw Lower (Jackson River)	ALLEGHANY CO	Lake Moomaw from its impounding structure upstream to just upstream of the Big Lick Creek confluence.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	750.72 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 01686 Impairment Specific Comments and/or Impairment Specific VA Category Category 4C
VAW-I03L_JKS02A02	Lake Moomaw Middle (Jackson River)	BATH CO	Lake Moomaw from just upstream of the Big Lick Creek confluence on upstream ~1.35 miles above the Mill Creek mouth.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	1328.13 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 01686 Impairment Specific Comments and/or Impairment Specific VA Category Category 4C
Lake Nelson			
TMDL Watershed Name:	Lake Nelson		
TMDL Group ID:	01651		
VAV-H13L_XLU01A04	Lake Nelson	NELSON CO	Lake Nelson
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	45.00 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 01651 Impairment Specific Comments and/or Impairment Specific VA Category The lake is not supporting the aquatic life use based on violations of the dissolved oxygen WQS in the Hypolimnion during the summer months. This has been determined to be a natural condition in the thermally stratified lake. (4C)

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Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Lake Prince - Reservoir (PWS)		
TMDL Group ID:	76146		
VAT-G14L_LPR01A06	Lake Prince - Reservoir (PWS)	ISLE OF WIGHT CO SUFFOLK CITY	Northwest of Suffolk, south of Town of Indika. Southwest branch of Western Branch Reservoir system. Upstream of Western Branch Reservoir. Portion of Norfolk water supply reservoirs.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	709.00 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 76146 Impairment Specific Comments and/or Impairment Specific VA Category The Aquatic Life Use is impaired based on dissolved oxygen concentrations below the DEQ minimum allowable instantaneous criteria. TSI calculation for 2-LPR000.02, (epilimnion) indicates impairment not due to anthropogenic sources { Category 4C} and Eutrophic Category = Mesotrophic (TSI 40 - 60). TSI calculation for 2-LPR007.55, (epilimnion) indicates impairment not due to anthropogenic sources { Category 4C} and Eutrophic Category = Mesotrophic (TSI 40 - 60). TSI calculation for 2-NWB006.56, (epilimnion) indicates impairment not due to anthropogenic sources { Category 4C} and Eutrophic Category = Mesotrophic (TSI 40-60).
TMDL Watershed Name:	Little Creek Reservoir (PWS)		
TMDL Group ID:	76205		
VAT-G08L_LTL01A06	Little Creek Reservoir (PWS)	JAMES CITY CO	Northeast of the Chickahominy River and southwest of Toano. Entire reservoir. James City County PWS.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	925.00 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 76205 Impairment Specific Comments and/or Impairment Specific VA Category The Aquatic Life Use impairment is due to dissolved oxygen concentration measurements at all three stations (40 violates / 102 obs. @ 2-LTL001.60; 36 violates / 95 obs. @ 2-LTL001.20, 38 violates / 100 obs. @ 2-LTL002.46) below the minimum criteria (4.0 mg/L) reported from observations at the DEQ (Lake) monitoring stations sampled during the current assessment cycle. TSI calculation results (for parameters sechi, TP, Chl a, all TSI > 60) indicate impairment not due to anthropogenic factors. The TSI calculations for all three stations (2-LTL001.20, 2-LTL001.60 and 2-LTL002.46 indicates impairment not due to anthropogenic sources { Category 4C} and Eutrophic Category = Mesotrophic (TSI 40 - 60).

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Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Lonestar Lake G (PWS)		
TMDL Group ID:	76035		
VAT-G11L_LSL01F06	Lonestar Lake F (PWS)	SUFFOLK CITY	Upstream impounded portions of Chuckatuck Creek. Most southeast pond. Water supply system composed of flooded borrow pits. Suffolk PWS component.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	19.00 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 76035 Impairment Specific Comments and/or Impairment Specific VA Category The Aquatic Life Use is impaired based on dissolved oxygen concentrations below the minimum allowable instantaneous criteria of 4.0 mg/l. Failure to meet the dissolved oxygen concentrations below the minimum allowable instantaneous criteria as recorded at the DEQ (Lake) monitoring station @ 2-LSL000.16 (11 vioates / 42 observations). TSI calculation for [lake F] 2-LSL000.16, (epilimnion) indicates impairment not due to anthropogenic sources {Category 4C} and Eutrophic Category = Mesotrophic (TSI 40 - 60).
VAT-G11L_LSL01I06	Lonestar Lake I (PWS)	SUFFOLK CITY	Upstream impounded portions of Chuckatuck Creek. Pond south and adjacent to Chuckatuck Creek. Water supply system composed of flooded borrow pits. Suffolk PWS component.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	33.00 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 76035 Impairment Specific Comments and/or Impairment Specific VA Category The Aquatic Life Use is impaired based on dissolved oxygen concentrations below the minimum allowable instantaneous criteria of 4.0 mg/l. Failure to meet the dissolved oxygen concentrations below the minimum allowable instantaneous criteria as recorded at the DEQ (Lake) monitoring station @ 2-LSL000.20 (11 vioates / 49 observations). TSI calculation for [lake I] 2-LSL000.20, (epilimnion) indicates impairment not due to anthropogenic sources { Category 4C} and Eutrophic Category = Mesotrophic (TSI 40 - 60).

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Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Long Branch		
TMDL Group ID:	90009		
VAP-J12R_LNG01A04	Long Branch	AMELIA CO NOTTOWAY CO	The mainstem of Long Branch.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	4.76 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 90009 Impairment Specific Comments and/or Impairment Specific VA Category The Natural Conditions Assessment report for Low DO in Winticomack Creek recommends that Long Branch and UT to Winticomack XTZ in their entirety and Winticomack Creek from its Long Branch to its mouth be reclassified as Class VII swampwaters. Until the reclassification, the streams will be assessed as Cat. 4C.
DO violation rate at station 2-LNG001.96 on Rt. 600 was 3/20.			
TMDL Watershed Name:	Pads Creek, South Fork		
TMDL Group ID:	01675		
VAV-I17R_PDS01A02	S.F. Pads Creek	BATH CO	S. F. Pads Creek from the headwaters (excluding tributaries) downstream to its confluence with Pads Creek.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Benthic-Macroinvertebrate Bioassessments (Streams)	5.36 MILES Sources: Drought-related Impacts	TMDL Group ID 01675 Impairment Specific Comments and/or Impairment Specific VA Category The USFS has determined this impaired to be natural due to drought conditions.
TMDL Watershed Name:	Panther Run		
TMDL Group ID:	01674		
VAV-I14R_PNR01A02	Panther Run	BATH CO	Panther Run from the headwaters downstream to its confluence with Mare Run.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Benthic-Macroinvertebrate Bioassessments (Streams)	1.85 MILES Sources: Drought-related Impacts	TMDL Group ID 01674 Impairment Specific Comments and/or Impairment Specific VA Category Impairment is the result of only 1 survey. The USFS had determined this impairment to be natural due to drought conditions.

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Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Prince Edward Lake		
TMDL Group ID:	50017		
VAC-J03L_SDY02A06	Prince Edward Lake	PRINCE EDWARD CO	Prince Edward and Goodwin Lake State Park
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	31.83 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 50017 Impairment Specific Comments and/or Impairment Specific VA Category
TMDL Watershed Name:	Ragged Mountain Reservoir		
TMDL Group ID:	01666		
VAV-H28L_XLV01A04	Ragged Mountain Reservoir	ALBEMARLE CO	Ragged Mountain Reservoir
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	54.00 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 01666 Impairment Specific Comments and/or Impairment Specific VA Category The lake is not supporting the aquatic life use based on violations of the dissolved oxygen WQS in the Hypolimnion during the summer months. This has been determined to be a natural condition in the thermally stratified lake. (4C)
TMDL Watershed Name:	Rivanna River, South Fork Reservoir		
TMDL Group ID:	50011		
VAV-H26L_01	S F Rivanna River Reservoir	ALBEMARLE CO	South Fork Rivanna River Reservoir
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	390.00 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 50011 Impairment Specific Comments and/or Impairment Specific VA Category Newly listed for dissolved oxygen in 2006. This has been determined to be due to natural conditions. (4C)

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Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Robertson Lake		
TMDL Group ID:	01684		
VAV-I38L_XMW01A04	Lake Robertson	ROCKBRIDGE CO	Lake Robertson
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	31.00 ACRES	
	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 01684	Impairment Specific Comments and/or Impairment Specific VA Category DO impairment due to natural conditions. (4C)
TMDL Watershed Name:	Sandy River Reservoir		
TMDL Group ID:	50016		
VAC-J03L_SDY01A06	Sandy River Reservoir	PRINCE EDWARD CO	Sandy River
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	561.75 ACRES	
	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 50016	Impairment Specific Comments and/or Impairment Specific VA Category

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James River Basin			
TMDL Watershed Name:	Skinquarter Creek		
TMDL Group ID:	00657		
VAP-J07R_SQT01A00	Skinquarter Creek	CHESTERFIELD CO POWHATAN CO	Skinquarter Creek from its headwaters to the confluence with the Appomattox River.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	7.00 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00657 Impairment Specific Comments and/or Impairment Specific VA Category VAP-J07R-01 Skinquarter Creek was assessed not supporting of the Aquatic Life use support goal based on dissolved oxygen and pH violations at the Route 603 bridge (2-SQT001.54) and the Route 622 bridge (2-SQT003.12). During the 2006 cycle, natural conditions assessment reports were developed for dissolved oxygen and pH. Both reports attribute the impairments to natural low flow conditions and recommend that Skinquarter Creek be reclassified as Class VII swampwater. Until the reclassification, the segment will be assessed as Cat. 4C.
TMDL Group ID:	00688		
VAP-J07R_SQT01A00	Skinquarter Creek	CHESTERFIELD CO POWHATAN CO	Skinquarter Creek from its headwaters to the confluence with the Appomattox River.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	7.00 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00688 Impairment Specific Comments and/or Impairment Specific VA Category VAP-J07R-01 Skinquarter Creek was assessed not supporting of the Aquatic Life use support goal based on dissolved oxygen and pH violations at the Route 603 bridge (2-SQT001.54) and the Route 622 bridge (2-SQT003.12). During the 2006 cycle, natural conditions assessment reports were developed for dissolved oxygen and pH. Both reports attribute the impairments to natural low flow conditions and recommend that Skinquarter Creek be reclassified as Class VII swampwater. Until the reclassification, the segment will be assessed as Cat. 4C.

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Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Sugar Hollow Reservoir		
TMDL Group ID:	01664		
VAV-H24L_MNR01A04	Sugar Hollow Reservoir	ALBEMARLE CO	Sugar Hollow Reservoir
VA Overall AU Category:	4C		
Use	Impairment	47.00 ACRES	
Aquatic Life	Oxygen, Dissolved	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	<div> <div>TMDL Group ID</div> <div>01664</div> </div> <div> <div>Impairment Specific Comments and/or Impairment Specific VA Category</div> <div>The lake is not supporting the aquatic life use based on violations of the dissolved oxygen WQS in the Hypolimnion during the summer months. This has been determined to be a natural condition in the thermally stratified lake. (4C)</div> </div>

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Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Swift Creek Reservoir		
TMDL Group ID:	01303		
VAP-J16L_APP01A98	Swift Creek Reservoir	CHESTERFIELD CO	HUC: 02080207
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	72.00 ACRES Sources: Changes in Ordinary Stratification and Bottom Water Hypoxia/Anoxia	TMDL Group ID 01303 Impairment Specific Comments and/or Impairment Specific VA Category 01303 (DO) VAP-J16L-01 Assessment information APP02A98 Reservoir impaired for DO in bottom waters during stratification. The TSI is acceptable except for Secchi TSI at 2-SFT033.42. Since the Secchi TSI is larger than the Phos and Chl_a TSIs, the Secchi TSI is ignored and the segment is considered naturally impaired due to stratification.
VAP-J16L_APP02A98	Swift Creek Reservoir	CHESTERFIELD CO	Extent of the backwater for Swift Creek Reservoir
			HUC: 02080207
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	1728.00 ACRES Sources: Changes in Ordinary Stratification and Bottom Water Hypoxia/Anoxia	TMDL Group ID 01303 Impairment Specific Comments and/or Impairment Specific VA Category 1303 (DO) VAP-J16L-01 The reservoir stratifies in the summer months and is therefore subject to low dissolved oxygen in the bottom layer (hypolimnion). The Trophic State Indices are acceptable, therefore the reservoir is considered impaired by natural stratification.

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Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Swift Creek Reservoir		
TMDL Group ID:	1303		
VAP-J17L_SFT01A98	Swift Creek Lake	CHESTERFIELD CO	Swift Creek Lake
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	156.00 ACRES Sources: Changes in Ordinary Stratification and Bottom Water Hypoxia/Anoxia	TMDL Group ID 1303 Impairment Specific Comments and/or Impairment Specific VA Category The reservoir was impaired for DO in bottom waters during summer months due to stratification. The Trophic State Index (TSI) is acceptable except for Secchi TSI = 67 (TSI >60). Since the Secchi TSI is larger than the Phos and Chl_a TSIs, the Secchi TSI is ignored and the segment is considered naturally impaired due to stratification.
TMDL Watershed Name:	Totier Creek Reservoir		
TMDL Group ID:	01652		
VAV-H17L_TOT01A04	Totier Creek Reservoir	ALBEMARLE CO	Totier Creek Reservoir
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	66.00 ACRES Sources: Changes in Ordinary Stratification and Bottom Water Hypoxia/Anoxia	TMDL Group ID 01652 Impairment Specific Comments and/or Impairment Specific VA Category The lake is not supporting the aquatic life use based on violations of the dissolved oxygen WQS in the Hypolimnion during the summer months. This has been determined to be a natural condition in the thermally stratified lake. (4C)

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Tuckahoe Creek Watershed		
TMDL Group ID:	00687		
VAP-H39R_GER01A02	Georges Branch	GOOCHLAND CO	Headwaters to mouth at Tuckahoe Creek
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	1.84 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00687 Impairment Specific Comments and/or Impairment Specific VA Category VAP-H39R-02 The Tuckahoe Creek Natural Conditions Assessment report was completed in November 2005. The report attributes the low DO in Georges Branch to natural low flow conditions and recommends Cat. 4C.
VAP-H39R_RDR01A02	Readers Branch	GOOCHLAND CO	Headwaters to mouth at Little Tuckahoe Creek
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	3.00 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00687 Impairment Specific Comments and/or Impairment Specific VA Category VAP-H39R-02 The Tuckahoe Creek Natural Conditions Assessment report was completed in November 2005. The report attributes the low dissolved oxygen in Readers Branch to natural low-flow conditions and recommends the segment be assessed as a Cat. 4C water.
VAP-H39R_SNJ02A04	Stony Run	HENRICO CO	Dam of pond downstream to the mouth at Tuckahoe Creek
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	1.33 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00687 Impairment Specific Comments and/or Impairment Specific VA Category VAP-H39R-02 The Tuckahoe Creek Natural Conditions Assessment report was completed in November 2005. The report attributes the low dissolved oxygen in Stony Run at 2-SNJ000.19 to natural low-flow conditions and recommends the segment be assessed as a Cat. 4C water.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Tuckahoe Creek Watershed		
TMDL Group ID:	00687		
VAP-H39R_TKE01A04	Tuckahoe Creek, East Branch	HENRICO CO	Eastern Branch Tuckahoe Creek from the confluence with Tuckahoe Creek to the confluence with the James River (Kanawha Canal) near Boshers Dam.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	3.45 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00687 Impairment Specific Comments and/or Impairment Specific VA Category VAP-H39R-02 The Tuckahoe Creek Natural Conditions Assessment report was completed in November 2005. The report attributes the low dissolved oxygen in Eastern Branch Tuckahoe Creek (4/14 at 2-TKE000.72) to natural low-flow conditions. The segment is assessed as Category 4C.
VAP-H39R_XUR01A04	UT to Tuckahoe Creek	HENRICO CO	Headwaters to mouth
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	2.60 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00687 Impairment Specific Comments and/or Impairment Specific VA Category VAP-H39R-02 The Tuckahoe Creek Natural Conditions Assessment report was completed in November 2005. The low dissolved oxygen in the segment was attributed to natural low-flow conditions and it was recommended that the segment be assessed Cat. 4C.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Western Branch Reservoir - Upper (PWS)		
TMDL Group ID:	76149		
VAT-G14L_NWB03A06	Western Branch Reservoir - Upper (PWS)	ISLE OF WIGHT CO SUFFOLK CITY	Northwest of Suffolk, south of Town of Indika. Main portion of the Western Branch Reservoir system. Downstream receptor from Lakes Prince and Burnt Mills. Portion of Norfolk water supply reservoirs.
VA Overall AU Category:	4C		
Use	Impairment	352.00 ACRES	
Aquatic Life	Oxygen, Dissolved	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	<div> <div>TMDL Group ID</div> <div>76149</div> </div> <div> <div>Impairment Specific Comments and/or Impairment Specific VA Category</div> <div> <p>The Aquatic Life Use is impaired based on dissolved oxygen concentrations below the DEQ minimum allowable instantaneous criteria of 4.0 mg/l. The cause of the impairment is determined to be by pollution rather than pollutants, and will not require development of a TMDL. Failure to meet the dissolved oxygen concentrations below the minimum allowable instantaneous criteria as recorded at the DEQ (Lake) monitoring station @ 2-NWB006.06 (9 vioates / 45 observations) and City of Norfolk (MUN) monitoring stations @ WB4 (6 vioates / 25 observations).</p> <p>TSI calculation for 2-NWB006.06, (epilimnion) indicates impairment not due to anthropogenic sources { Category 4C} and Eutrophic Category = Mesotrophic (TSI 40 - 60).</p> </div> </div>

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Winterpock Creek		
TMDL Group ID:	00658		
VAP-J12R_WPK01A98	Winterpock Creek	CHESTERFIELD CO	Headwaters to mouth at Appomattox River. In 2006, the segment was shortened based on the Natural Conditions Assessment report for Winterpock Cr.
VA Overall AU Category:	4C		
Use	Impairment	8.47 MILES	TMDL Group ID
Aquatic Life	pH	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	00658
			Impairment Specific Comments and/or Impairment Specific VA Category
			00658 (pH) 00681 (DO) 01201 (FC) - Delist
			VAP-J12R-02; VAP-J12R-03
			pH violation rates were 8/45 at 2-WPK003.23; 10/21 at 2-WPK004.42; 18/21 at 2-WPK005.73; 17/18 at 2-WPK007.08; and 13/17 at 2-WPK008.15.
			The report for the Natural Conditions Assessment for low pH in Winterpock Creek was also completed. A change in the water quality standards classification to Class VII Swampwater due to natural conditions, rather than a TMDL, was indicated for mainstem Winterpock Creek from rivermile 8.47 and its unnamed tributaries downstream to the mouth, excluding Surline Branch and its tributaries. This segment is assessed as Cat 4C.
			In 2006, the segment was shortened to include Winterpock Creek from rivermile 8.47 and its tributaries to the mouth.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Winterpock Creek		
TMDL Group ID:	00681		
VAP-J12R_WPK01A98	Winterpock Creek	CHESTERFIELD CO	Headwaters to mouth at Appomattox River. In 2006, the segment was shortened based on the Natural Conditions Assessment report for Winterpock Cr.
VA Overall AU Category:	4C		
Use	Impairment	8.47 MILES	TMDL Group ID
Aquatic Life	Oxygen, Dissolved	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	00681
			00658 (pH) 00681 (DO)
			VAP-J12R-02
			In 2006, the DO violation rates were 10/45 at 2-WPK003.23; 6/21 at 2-WPK004.42; and 9/21 at 2-WPK005.73.
			In March 2005, the Natural Conditions Assessment for Low DO in Winterpock Creek, Chesterfield evaluation report was completed. Based on the information for low DO, a change in the water quality standards classification to Class VII Swampwater due to natural conditions, rather than a TMDL, was indicated for mainstem Winterpock Creek from rivermile 6.42 at the confluence of the largest tributary between Rts. 655 and 664 and its unnamed tributaries downstream to the mouth, excluding Surline Branch and its tributaries, and unnamed tributary "XUB". This segment is assessed as Cat 4C.
			In 2006, the segment was shortened to include Winterpock Creek from rivermile 8.47 and its tributaries to the mouth.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Winterpock Creek		
TMDL Group ID:	01199		
VAP-J12R_WPK01A00	Winterpock Creek	CHESTERFIELD CO	The tributaries of Winterpock Creek excluding Surline Creek and its tributaries.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	10.39 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	<div>TMDL Group ID</div> <div>01199</div> <div> Impairment Specific Comments and/or Impairment Specific VA Category 01199 (DO) 01200 (pH) VAP-J12R-02 During the 2006 assessment, the DO standard violation rate at 2-XUA000.81 was 3/19. In March 2005, the Natural Conditions Assessment for Low DO in Winterpock Creek, Chesterfield evaluation report was completed. Based on the information for low DO, a change in the water quality standards classification to Class VII Swampwater due to natural conditions, rather than a TMDL, was indicated for mainstem Winterpock Creek from rivermile 6.42 at the confluence of the largest tributary between Rts. 655 and 664 and its unnamed tributaries downstream to the mouth, excluding Surline Branch and its tributaries, and unnamed tributary "XUB". This segment is assessed as Cat 4C. The pH standard violation rate at 2-XUA000.81 was 17/19, and 15/17 at 2-XUB000.27. The report for the Natural Conditions Assessment for low pH in Winterpock Creek was also completed. A change in the water quality standards classification to Class VII Swampwater due to natural conditions, rather than a TMDL, was indicated for mainstem Winterpock Creek from rivermile 8.47 and its unnamed tributaries downstream to the mouth, excluding Surline Branch and its tributaries. This segment is assessed as Cat 4C. </div>

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Winterpock Creek		
TMDL Group ID:	01200		
VAP-J12R_WPK01A00	Winterpock Creek	CHESTERFIELD CO	The tributaries of Winterpock Creek excluding Surline Creek and its tributaries.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	10.39 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	<div>TMDL Group ID</div> <div>01200</div> <div> Impairment Specific Comments and/or Impairment Specific VA Category 01199 (DO) 01200 (pH) VAP-J12R-02 During the 2006 assessment, the DO standard violation rate at 2-XUA000.81 was 3/19. In March 2005, the Natural Conditions Assessment for Low DO in Winterpock Creek, Chesterfield evaluation report was completed. Based on the information for low DO, a change in the water quality standards classification to Class VII Swampwater due to natural conditions, rather than a TMDL, was indicated for mainstem Winterpock Creek from rivermile 6.42 at the confluence of the largest tributary between Rts. 655 and 664 and its unnamed tributaries downstream to the mouth, excluding Surline Branch and its tributaries, and unnamed tributary "XUB". This segment is assessed as Cat 4C. The pH standard violation rate at 2-XUA000.81 was 17/19, and 15/17 at 2-XUB000.27. The report for the Natural Conditions Assessment for low pH in Winterpock Creek was also completed. A change in the water quality standards classification to Class VII Swampwater due to natural conditions, rather than a TMDL, was indicated for mainstem Winterpock Creek from rivermile 8.47 and its unnamed tributaries downstream to the mouth, excluding Surline Branch and its tributaries. This segment is assessed as Cat 4C. </div>

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Winticomack Creek		
TMDL Group ID:	00659		
VAP-J12R_WTK01A00	Winticomack Creek	AMELIA CO NOTTOWAY CO	Winticomack Creek from its headwaters to its confluence with Long Branch.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	7.01 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00659 Impairment Specific Comments and/or Impairment Specific VA Category The pH violation rate was 3/20 at 2-WTK006.35 and 7/20 at 2-WTK008.89. The Natural Conditions Assessment report for Low DO in Winticomack Creek recommends that Long Branch and UT to Winticomack XTZ in their entirety and Winticomack Creek from its Long Branch to its mouth be reclassified as Class VII swampwaters. In addition, the Natural Conditions Assessment report for Low pH in Winticomack Creek recommends that the following streams be reclassified as Class VII swampwaters: Winticomack from headwaters to mouth, and UTs to Winticomack at Rrm 1.92 (XTZ), 3.15 (XWB), 8.77 (XTY), and 11.16. Until the reclassification, the streams will be assessed as Cat. 4C.
VAP-J12R_WTK02A00	Winticomack Creek	AMELIA CO	Winticomack Creek from the confluence with Long Branch to the confluence with the Appomattox River.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	3.97 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00659 Impairment Specific Comments and/or Impairment Specific VA Category 00689 (DO) 00659 (pH) VAP-J12R-01 The DO violation rate for 2006 cycle was 11/40 at 2-WTK001.50, and 8/33 at 2-WTK003.92. The pH violation rate was 15/39 at 2-WTK001.50, and 9/32 at 2-WTK003.92. The Natural Conditions Assessment report for Low DO in Winticomack Creek recommends that Long Branch and UT to Winticomack XTZ in their entirety and Winticomack Creek from its Long Branch to its mouth be reclassified as Class VII swampwaters. In addition, the Natural Conditions Assessment report for Low pH in Winticomack Creek recommends that the following streams be reclassified as Class VII swampwaters: Winticomack from headwaters to mouth, and UTs to Winticomack at Rrm 1.92 (XTZ), 3.15 (XWB), 8.77 (XTY), and 11.16. Until the reclassification, the streams will be assessed as Cat. 4C.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Winticomack Creek		
TMDL Group ID:	00689		
VAP-J12R_WTK02A00	Winticomack Creek	AMELIA CO	Winticomack Creek from the confluence with Long Branch to the confluence with the Appomattox River.
VA Overall AU Category:	4C		
Use	Impairment	3.97 MILES	
Aquatic Life	Oxygen, Dissolved	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	<div> <div>TMDL Group ID</div> <div>00689</div> </div> <div> <div>Impairment Specific Comments and/or Impairment Specific VA Category</div> <div> 00689 (DO) 00659 (pH) VAP-J12R-01 The DO violation rate for 2006 cycle was 11/40 at 2-WTK001.50, and 8/33 at 2-WTK003.92. The pH violation rate was 15/39 at 2-WTK001.50, and 9/32 at 2-WTK003.92. The Natural Conditions Assessment report for Low DO in Winticomack Creek recommends that Long Branch and UT to Winticomack XTZ in their entirety and Winticomack Creek from its Long Branch to its mouth be reclassified as Class VII swampwaters. In addition, the Natural Conditions Assessment report for Low pH in Winticomack Creek recommends that the following streams be reclassified as Class VII swampwaters: Winticomack from headwaters to mouth, and UTs to Winticomack at Rm 1.92 (XTZ), 3.15 (XWB), 8.77 (XTY), and 11.16. Until the reclassification, the streams will be assessed as Cat. 4C. </div> </div>

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Winticomack Creek, Unnamed Tributary		
TMDL Group ID:	01202		
VAP-J12R_XTY01A04	UT to Winticomack Creek	AMELIA CO	Headwaters to mouth at Winticomack Creek
VA Overall AU Category:	4C		
Use	Impairment	0.81 MILES	TMDL Group ID
Aquatic Life	pH	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	01202
			Impairment Specific Comments and/or Impairment Specific VA Category
			01202 (pH)
			VAP-J12R-05
			For the 2006 cycle, the pH violation rate cycle was 10/17.
			The Natural Conditions Assessment report for Low pH in Winticomack Creek recommends that the following streams be reclassified as Class VII swampwaters: Winticomack from headwaters to mouth, and UTs to Winticomack at Rm 1.92 (XTZ), 3.15 (XWB), 8.77 (XTY), and 11.16. In addition, the Natural Conditions Assessment report for Low DO in Winticomack Creek recommends that Long Branch and UT to Winticomack XTZ in their entirety and Winticomack Creek from its Long Branch to its mouth be reclassified as Class VII swampwaters. Until the reclassification, the streams will be assessed as Cat. 4C.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Winticomack Creek, Unnamed Tributary		
TMDL Group ID:	01203		
VAP-J12R_XTZ01A04	UT to Winticomack Creek	AMELIA CO	Headwaters to mouth
VA Overall AU Category:	4C		
Use	Impairment	2.68 MILES	
Aquatic Life	Oxygen, Dissolved	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	<div>TMDL Group ID</div> <div>01203</div> <div> Impairment Specific Comments and/or Impairment Specific VA Category 01203 (DO) 01204 (pH) VAP-J12R-04 For the 2006 cycle, the DO violation rate was 11/20 and the pH violation rate was 8/20. The Natural Conditions Assessment report for Low DO in Winticomack Creek recommends that Long Branch and UT to Winticomack XTZ in their entirety and Winticomack Creek from its Long Branch to its mouth be reclassified as Class VII swampwaters. In addition, the Natural Conditions Assessment report for Low pH in Winticomack Creek recommends that the following streams be reclassified as Class VII swampwaters: Winticomack from headwaters to mouth, and UTs to Winticomack at Rm 1.92 (XTZ), 3.15 (XWB), 8.77 (XTY), and 11.16. Until the reclassification, the streams will be assessed as Cat. 4C. </div>

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
James River Basin			
TMDL Watershed Name:	Winticomack Creek, Unnamed Tributary		
TMDL Group ID:	01204		
VAP-J12R_XTZ01A04	UT to Winticomack Creek	AMELIA CO	Headwaters to mouth
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	2.68 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 01204 Impairment Specific Comments and/or Impairment Specific VA Category 01203 (DO) 01204 (pH) VAP-J12R-04 For the 2006 cycle, the DO violation rate was 11/20 and the pH violation rate was 8/20. The Natural Conditions Assessment report for Low DO in Winticomack Creek recommends that Long Branch and UT to Winticomack XTZ in their entirety and Winticomack Creek from its Long Branch to its mouth be reclassified as Class VII swampwaters. In addition, the Natural Conditions Assessment report for Low pH in Winticomack Creek recommends that the following streams be reclassified as Class VII swampwaters: Winticomack from headwaters to mouth, and UTs to Winticomack at Rm 1.92 (XTZ), 3.15 (XWB), 8.77 (XTY), and 11.16. Until the reclassification, the streams will be assessed as Cat. 4C.
TMDL Group ID:	15023		
VAP-J12R_XWB01A04	UT to Winticomack Creek	AMELIA CO	Headwaters to mouth
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	4.24 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 15023 Impairment Specific Comments and/or Impairment Specific VA Category The pH violation rate was 7/20. The Natural Conditions Assessment report for Low DO in Winticomack Creek recommends that Long Branch and UT to Winticomack XTZ in their entirety and Winticomack Creek from its Long Branch to its mouth be reclassified as Class VII swampwaters. In addition, the Natural Conditions Assessment report for Low pH in Winticomack Creek recommends that the following streams be reclassified as Class VII swampwaters: Winticomack from headwaters to mouth, and UTs to Winticomack at Rm 1.92 (XTZ), 3.15 (XWB), 8.77 (XTY), and 11.16. Until the reclassification, the streams will be assessed as Cat. 4C.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
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James River Basin

Note: Assessment Units may extend across jurisdictional boundaries.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
<i>Rappahannock River Basin</i>			
TMDL Watershed Name:	Cat Point Creek Watershed		
TMDL Group ID:	00649		
VAP-E23R_CAT02A02	Cat Point Creek	RICHMOND CO WESTMORELAND CO	Cat Point Creek from The Big Swamp to Ruin Branch.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	1.14 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	<div> <div>TMDL Group ID</div> <div>00649</div> </div> <div> <div>Impairment Specific Comments and/or Impairment Specific VA Category</div> <div>VAP-E23R-01</div> </div> <p>Cat Point Creek from Ruin Branch to Canal Swamp (4.99 miles) was assessed as not supporting of the Aquatic Life use support goal during the 1998 cycle based on pH standard violations recorded at monitoring station 3-CAT011.62, located at the Route 637 bridge. During the year 2004 cycle, the segment was extended due to the pH violations throughout the watershed.</p> <p>The TMDL for the original segment was due in 2014, but the TMDL for the upstream portion of Cat Point Creek and the tributaries was not due until 2016.</p> <p>During the 2006 cycle, the "Natural Conditions Assessment for low pH, Cat Point Creek, Richmond and Westmoreland Counties, Virginia" recommended that Cat Point Creek and its tribs from their headwaters to the head of tide at rivermile 10.54 (Canal Swamp) be reclassified as Class VII swampwaters. Until the WQS can be changed, the streams will be assessed as Cat. 4C for pH.</p> <p>During the 1998 cycle, Canal Swamp was mistakenly called Bellfield Creek.</p>

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
<i>Rappahannock River Basin</i>			
TMDL Watershed Name:	Cat Point Creek Watershed		
TMDL Group ID:	00649		
VAP-E23R_CAT03A04	Cat Point Creek tributaries	RICHMOND CO WESTMORELAND CO	Cat Point Creek tributaries, excluding Black Swamp and The Big Swamp
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	49.66 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00649 Impairment Specific Comments and/or Impairment Specific VA Category VAP-E23R-01 Cat Point Creek from Ruin Branch to Canal Swamp (4.99 miles) was assessed as not supporting of the Aquatic Life use support goal during the 1998 cycle based on pH standard violations recorded at monitoring station 3-CAT011.62, located at the Route 637 bridge. During the year 2004 cycle, the segment was extended due to the pH violations throughout the watershed. The TMDL for the original segment was due in 2014, but the TMDL for the upstream portion of Cat Point Creek and the tributaries was not due until 2016. During the 2006 cycle, the "Natural Conditions Assessment for low pH, Cat Point Creek, Richmond and Westmoreland Counties, Virginia" recommended that Cat Point Creek and its tribs from their headwaters to the head of tide at rivermile 10.54 (Canal Swamp) be reclassified as Class VII swampwaters. Until the WQS can be changed, the streams will be assessed as Cat. 4C for pH. During the 1998 cycle, Canal Swamp was mistakenly called Bellfield Creek.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
<i>Rappahannock River Basin</i>			
TMDL Watershed Name:	Lake Pelham		
TMDL Group ID:	00839		
VAN-E09L_MTN01A02	Lake Pelham	CULPEPER CO	Segment includes all of Lake Pelham.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	253.00 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00839 Impairment Specific Comments and/or Impairment Specific VA Category The aquatic life use is impaired due to low dissolved oxygen in the bottom waters of the reservoir. Eight of 9 samples (88.9%) in bottom waters were below the minimum DO level (4.0 mg/L) for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.
TMDL Group ID:	00840		
VAN-E09L_MTN01A02	Lake Pelham	CULPEPER CO	Segment includes all of Lake Pelham.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	253.00 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00840 Impairment Specific Comments and/or Impairment Specific VA Category Sufficient excursions from the pH water quality criteria were recorded to assess this segment as not supporting of the aquatic life use. Four of 6 samples (66.7%) were above the upper range (9.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Motts Run Reservoir		
TMDL Group ID:	60114		
VAN-E19L_MOT01A02	Motts Run Reservoir	SPOTSYLVANIA CO	Segment includes the lower half of Motts Run Reservoir; beginning at rivermile 0.8 and continuing downstream until the lake's discharge.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	80.00 ACRES Sources: Source Unknown	TMDL Group ID 60114 Impairment Specific Comments and/or Impairment Specific VA Category Sufficient excursions from the pH water quality criteria were recorded to assess this segment as not supporting of the aquatic life use. Two of two samples (100%) from the upper layer during stratification were above the upper range (9.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.
VAN-E19L_MOT02A02	Motts Run Reservoir	SPOTSYLVANIA CO	Segment includes the upper half of Motts Run Reservoir; beginning at the upper end of the reservoir and continuing downstream until rivermile 0.8.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	80.00 ACRES Sources: Source Unknown	TMDL Group ID 60114 Impairment Specific Comments and/or Impairment Specific VA Category Sufficient excursions from the pH water quality criteria were recorded to assess this segment as not supporting of the aquatic life use. Two of 11 samples (18.2%) were above the upper range (9.0 SU) of the pH water quality criteria for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.
Mount Landing Creek			
TMDL Watershed Name:	Mount Landing Creek		
TMDL Group ID:	01044		
VAP-E23R_MTL02A04	Mount Landing Creek	ESSEX CO	Bull Neck Creek at rivermile 10.40 to the first tributary upstream of the Route 716 bridge
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	4.91 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 01044 Impairment Specific Comments and/or Impairment Specific VA Category VAP-E23R-07 During the 2006 cycle, the "Natural Conditions Assessment for low pH, Mount Landing Creek, Essex, Virginia" recommended that Mount Landing Creek and its tributaries from its headwaters downstream to the head of tide at rivermile 4.44 be reclassified as Class VII swampwater. Until the reclassification, the streams will be assessed as Cat. 4C for pH.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
Rappahannock River Basin			
TMDL Watershed Name:	Mount Landing Creek, Bull Neck Creek, Unnamed Tributary		
TMDL Group ID:	01045		
VAP-E23R_BNC01A04	Bull Neck Creek	ESSEX CO	Headwaters to mouth at Mouth Landing Creek
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	4.36 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 01045 Impairment Specific Comments and/or Impairment Specific VA Category VAP-E23R-05 During the 2006 cycle, the "Natural Conditions Assessment for low pH, Mount Landing Creek, Essex, Virginia" was completed and it recommended that Mount Landing Creek and its tributaries from its headwaters downstream to the head of tide at rivermile 4.44 be reclassified as Class VII swampwater. There was a new 2006 pH impairment at TMDL station 3-BNC000.92 on Bull Neck Creek. Until the reclassification, the stream will be assessed as Cat. 4C for pH.
VAP-E23R_XFK01A04	UT to Mount Landing Creek	ESSEX CO	Headwaters to mouth
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	2.43 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 01045 Impairment Specific Comments and/or Impairment Specific VA Category VAP-E23R-05 During the 2006 cycle, the "Natural Conditions Assessment for low pH, Mount Landing Creek, Essex, Virginia" recommended that Mount Landing Creek and its tributaries from its headwaters downstream to the head of tide at rivermile 4.44 be reclassified as Class VII swampwater. Until the reclassification, the streams will be assessed as Cat. 4C for pH. The pH violation rate at 3-XFK001.38 was 13/15.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
<i>Rappahannock River Basin</i>			
TMDL Watershed Name:	Mountain Run Lake		
TMDL Group ID:	00841		
VAN-E09L_MTN02A02	Mountain Run Lake	CULPEPER CO	Segment includes all of Mountain Run Lake.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	75.00 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00841 Impairment Specific Comments and/or Impairment Specific VA Category The aquatic life use is impaired due to low dissolved oxygen in the bottom waters of the reservoir. Seven of 12 samples (58.3%) in bottom waters and three of 12 samples (25.0%) in non-stratified waters were below the minimum DO level (4.0 mg/L) for Class III waters as established in 9 VAC 25-260-50 of the Virginia Water Quality Standards.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
<i>Rappahannock River Basin</i>			
TMDL Watershed Name:	Piscataway Creek Watershed		
TMDL Group ID:	00651		
VAP-E23R_MLC01A04	Mill Creek	ESSEX CO	Headwaters to tidal limit
VA Overall AU Category:	4C		
Use	Impairment	5.14 MILES	
Aquatic Life	pH	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	<p>TMDL Group ID 00651</p> <p>Impairment Specific Comments and/or Impairment Specific VA Category VAP-E23R-03</p> <p>Piscataway Creek from Sturgeon Swamp downstream to the tidal limit was initially assessed not supporting of the Aquatic Life use support goal in 1998 based on pH standard violations recorded at monitoring station 3-PIS009.24, located at the Route 691 bridge. The TMDL was due in 2010.</p> <p>During the 2004 cycle, UT XFL was also considered impaired for pH (2004 fact sheet VAP-E23R-08). The TMDL was due by 2014.</p> <p>During the 2006 cycle, additional watershed monitoring was performed and all of Piscataway Creek is impaired for pH, as well as XFL, XFM, XFN, Mussell Swamp, Sturgeon Swamp, and Mill Creek; therefore the segment was expanded with TMDL due dates of 2018. However, the ""Natural Conditions Assessment for low pH, Piscataway Creek, Essex, Virginia"" was completed during the cycle. The report recommends that Piscataway Creek and its tributaries from its headwaters to its mouth at the Rappahannock River be reclassified as Class VII swampwaters. Until the reclassification, the watershed will be considered Cat. 4C for pH.</p>

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
<i>Rappahannock River Basin</i>			
TMDL Watershed Name:	Piscataway Creek Watershed		
TMDL Group ID:	00651		
VAP-E23R_PIS01A98	Piscataway Creek	ESSEX CO	Piscataway Creek from Sturgeon Swamp (river mile 10.5) downstream to the tidal limit (river mile 8.2).
VA Overall AU Category:	4C		
Use	Impairment	3.50 MILES	TMDL Group ID
Aquatic Life	pH	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	00651
			Impairment Specific Comments and/or Impairment Specific VA Category VAP-E23R-03
			Piscataway Creek from Sturgeon Swamp downstream to the tidal limit was initially assessed not supporting of the Aquatic Life use support goal in 1998 based on pH standard violations recorded at monitoring station 3-PIS009.24, located at the Route 691 bridge. The TMDL was due in 2010.
			During the 2004 cycle, UT XFL was also considered impaired for pH (2004 fact sheet VAP-E23R-08). The TMDL was due by 2014.
			During the 2006 cycle, additional watershed monitoring was performed and all of Piscataway Creek is impaired for pH, as well as XFL, XFM, XFN, Mussell Swamp, Sturgeon Swamp, and Mill Creek; therefore the segment was expanded with TMDL due dates of 2018. However, the "Natural Conditions Assessment for low pH, Piscataway Creek, Essex, Virginia" was completed during the cycle. The report recommends that Piscataway Creek and its tributaries from its headwaters to its mouth at the Rappahannock River be reclassified as Class VII swampwaters. Until the reclassification, the watershed will be considered Cat. 4C for pH.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
<i>Rappahannock River Basin</i>			
TMDL Watershed Name:	Piscataway Creek Watershed		
TMDL Group ID:	00651		
VAP-E23R_PIS02A04	Piscataway Creek	ESSEX CO	Headwaters to confluence with Sturgeon Swamp
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment	3.69 MILES	
	pH	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	
		TMDL Group ID	Impairment Specific Comments and/or Impairment Specific VA Category
		00651	VAP-E23R-03
			Piscataway Creek from Sturgeon Swamp downstream to the tidal limit was initially assessed not supporting of the Aquatic Life use support goal in 1998 based on pH standard violations recorded at monitoring station 3-PIS009.24, located at the Route 691 bridge. The TMDL was due in 2010.
			During the 2004 cycle, UT XFL was also considered impaired for pH (2004 fact sheet VAP-E23R-08). The TMDL was due by 2014.
			During the 2006 cycle, additional watershed monitoring was performed and all of Piscataway Creek is impaired for pH, as well as XFL, XFM, XFN, Mussell Swamp, Sturgeon Swamp, and Mill Creek; therefore the segment was expanded with TMDL due dates of 2018. However, the "Natural Conditions Assessment for low pH, Piscataway Creek, Essex, Virginia" was completed during the cycle. The report recommends that Piscataway Creek and its tributaries from its headwaters to its mouth at the Rappahannock River be reclassified as Class VII swampwaters. Until the reclassification, the watershed will be considered Cat. 4C for pH.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
<i>Rappahannock River Basin</i>			
TMDL Watershed Name:	Piscataway Creek Watershed		
TMDL Group ID:	00651		
VAP-E23R_STU01A04	Sturgeon Swamp	ESSEX CO	Headwaters to mouth
VA Overall AU Category: 4C	Impairment	4.16 MILES	
Use	pH	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00651
Aquatic Life			<p>Impairment Specific Comments and/or Impairment Specific VA Category VAP-E23R-03</p> <p>Piscataway Creek from Sturgeon Swamp downstream to the tidal limit was initially assessed not supporting of the Aquatic Life use support goal in 1998 based on pH standard violations recorded at monitoring station 3-PIS009.24, located at the Route 691 bridge. The TMDL was due in 2010.</p> <p>During the 2004 cycle, UT XFL was also considered impaired for pH (2004 fact sheet VAP-E23R-08). The TMDL was due by 2014.</p> <p>During the 2006 cycle, additional watershed monitoring was performed and all of Piscataway Creek is impaired for pH, as well as XFL, XFM, XFN, Mussell Swamp, Sturgeon Swamp, and Mill Creek; therefore the segment was expanded with TMDL due dates of 2018. However, the "Natural Conditions Assessment for low pH, Piscataway Creek, Essex, Virginia" was completed during the cycle. The report recommends that Piscataway Creek and its tributaries from its headwaters to its mouth at the Rappahannock River be reclassified as Class VII swampwaters. Until the reclassification, the watershed will be considered Cat. 4C for pH.</p>

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
<i>Rappahannock River Basin</i>			
TMDL Watershed Name:	Piscataway Creek Watershed		
TMDL Group ID:	00651		
VAP-E23R_XFL01A04	UT to Piscataway Creek	ESSEX CO	Headwaters to mouth at the beginning of Piscataway Creek
VA Overall AU Category: 4C	Impairment	2.58 MILES	
Use	pH	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00651
Aquatic Life			<p>Impairment Specific Comments and/or Impairment Specific VA Category VAP-E23R-03</p> <p>Piscataway Creek from Sturgeon Swamp downstream to the tidal limit was initially assessed not supporting of the Aquatic Life use support goal in 1998 based on pH standard violations recorded at monitoring station 3-PIS009.24, located at the Route 691 bridge. The TMDL was due in 2010.</p> <p>During the 2004 cycle, UT XFL was also considered impaired for pH (2004 fact sheet VAP-E23R-08). The TMDL was due by 2014.</p> <p>During the 2006 cycle, additional watershed monitoring was performed and all of Piscataway Creek is impaired for pH, as well as XFL, XFM, XFN, Mussell Swamp, Sturgeon Swamp, and Mill Creek; therefore the segment was expanded with TMDL due dates of 2018. However, the ""Natural Conditions Assessment for low pH, Piscataway Creek, Essex, Virginia"" was completed during the cycle. The report recommends that Piscataway Creek and its tributaries from its headwaters to its mouth at the Rappahannock River be reclassified as Class VII swampwaters. Until the reclassification, the watershed will be considered Cat. 4C for pH.</p>

Note: Assessment Units may extend across jurisdictional boundaries.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
Roanoke and Yadkin River Basins			
TMDL Watershed Name:	Banister River		
TMDL Group ID:	00772		
VAC-L71L_BAN03L00	Banister Lake	HALIFAX CO	On the Banister River
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	398.29 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00772 Impairment Specific Comments and/or Impairment Specific VA Category
TMDL Watershed Name:	Carvin Cove Reservoir		
TMDL Group ID:	00716		
VAW-L05L_CRV01A02	Carvin Cove Reservoir	BOTETOURT CO ROANOKE CO	Carvin Cove Reservoir from its impounding structure to its backwaters.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	631.54 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00716 Impairment Specific Comments and/or Impairment Specific VA Category Category 4C
TMDL Watershed Name:	Cherrystone Reservoir		
TMDL Group ID:	00759		
VAC-L66L_CRR01A02	Cherrystone Reservoir	PITTSYLVANIA CO	Cherrystone Reservoir from its impounding structure upstream to its backwaters.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	117.97 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00759 Impairment Specific Comments and/or Impairment Specific VA Category

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
<i>Roanoke and Yadkin River Basins</i>			
TMDL Watershed Name:	Conner Lake		
TMDL Group ID:	50020		
VAC-L38L_HTA01L00	Conner Lake	HALIFAX CO	On Hunting Creek.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	102.66 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 50020 Impairment Specific Comments and/or Impairment Specific VA Category
TMDL Watershed Name:	Fairystone Lake, Goblintown Creek		
TMDL Group ID:	50028		
VAW-L51L_GOB02A06	Fairystone Lake (Goblin Town Creek)	PATRICK CO	Fairystone Lake from its impounding structure upstream to its backwaters.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	126.96 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 50028 Impairment Specific Comments and/or Impairment Specific VA Category Category 4C
TMDL Watershed Name:	Georges Creek Reservoir		
TMDL Group ID:	50022		
VAC-L68L_GEO01A02	Georges Creek Reservoir	PITTSYLVANIA CO	Geroges Creek Reservoir from its impounding structure upstream to its backwaters.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	9.69 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 50022 Impairment Specific Comments and/or Impairment Specific VA Category

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
<i>Roanoke and Yadkin River Basins</i>			
TMDL Watershed Name:	Phelps Creek Reservoir (Brookneal)		
TMDL Group ID:	00750		
VAC-L34L_PLP01A02	Phelps Creek Reservoir	CAMPBELL CO	Phelps Creek Reservoir
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	25.64 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00750 Impairment Specific Comments and/or Impairment Specific VA Category
TMDL Watershed Name:	Philpott Reservoir		
TMDL Group ID:	01715		
VAW-L51L_SRE01A02	Philpott Reservoir Lower (Smith River)	FRANKLIN CO PATRICK CO	Philpott Reservoir from its impounding structure upstream to just above the confluence of Goblin Town Creek.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	1221.36 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 01715 Impairment Specific Comments and/or Impairment Specific VA Category Category 4C
VAW-L51L_SRE02A02	Philpott Reservoir Middle (Smith River)	FRANKLIN CO PATRICK CO	Philpott Reservoir from just downstream of the Goblin Town Creek confluence upstream to just above the Beards Creek mouth.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	671.09 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 01715 Impairment Specific Comments and/or Impairment Specific VA Category Category 4C
VAW-L51L_SRE03A02	Philpott Reservoir Upper (Smith River)	FRANKLIN CO PATRICK CO	Philpott Reservoir from just downstream of the Beards Creek confluence upstream to its backwaters.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	388.62 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 01715 Impairment Specific Comments and/or Impairment Specific VA Category Category 4C

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
<i>Roanoke and Yadkin River Basins</i>			
TMDL Watershed Name:	Roaring Fork Reservoir		
TMDL Group ID:	50021		
VAC-L66L_RFK01A06	Roaring Fork Reservoir	PITTSYLVANIA CO	From its headwaters to its impounding structure
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	24.79 ACRES	
	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 50021	Impairment Specific Comments and/or Impairment Specific VA Category
TMDL Watershed Name:	Townes Reservoir - Dan River		
TMDL Group ID:	50005		
VAW-L42L_DAN02A02	Townes Reservoir	PATRICK CO	Townes Reservoir from its impounding structure upstream to its backwaters.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	27.60 ACRES	
	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 50005	Impairment Specific Comments and/or Impairment Specific VA Category Category 4C

Note: Assessment Units may extend across jurisdictional boundaries.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Assamoosick, Seacorrie, German, Pigeon Swamps		
TMDL Group ID:	00483		
VAP-K29R_ASM02A02	Assamoosick Swamp	SOUTHAMPTON CO	River mile 3.5 to mouth.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	3.50 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00483 Impairment Specific Comments and/or Impairment Specific VA Category VAP-K29R-01 Assamoosick Swamp, Seacorrie Swamp, German Swamp, and Pigeon Swamp were originally listed as impaired of the Aquatic Life Use in 1998 based on pH and DO violations throughout the watershed. Station 5AASM008.12 was later mistakenly listed on EPA's ""Waters Identified to Virginia for Listing Consideration During Development of the Next List"" for pH even though the segment was already 303(d) listed. The pH and DO TMDLs for these creeks are due in 2010. During the year 2006 cycle, the watershed was reclassified as Class VII swampwaters. All creeks within the watershed except for German Swamp now meet the pH criteria and should be delisted for pH. All segments are assessed as Cat. 4C for DO until the DO swampwater criteria can be developed.
VAP-K29R_ASM02A98	Assamoosick Swamp	SOUTHAMPTON CO	Route 607 bridge to river mile 3.5.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	4.62 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00483 Impairment Specific Comments and/or Impairment Specific VA Category VAP-K29R-01 Assamoosick Swamp, Seacorrie Swamp, German Swamp, and Pigeon Swamp were originally listed as impaired of the Aquatic Life Use in 1998 based on pH and DO violations throughout the watershed. Station 5AASM008.12 was later mistakenly listed on EPA's ""Waters Identified to Virginia for Listing Consideration During Development of the Next List"" for pH even though the segment was already 303(d) listed. The pH and DO TMDLs for these creeks are due in 2010. During the year 2006 cycle, the watershed was reclassified as Class VII swampwaters. All creeks within the watershed except for German Swamp now meet the pH criteria and should be delisted for pH. All segments are assessed as Cat. 4C for DO until the DO swampwater criteria can be developed.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Assamoosick, Seacorrie, German, Pigeon Swamps		
TMDL Group ID:	00483		
VAP-K29R_PNS01A02	Pigeon Swamp	SUSSEX CO	The mainstem of Pigeon Swamp.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	4.51 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00483 Impairment Specific Comments and/or Impairment Specific VA Category VAP-K29R-01 Assamoosick Swamp, Seacorrie Swamp, German Swamp, and Pigeon Swamp were originally listed as impaired of the Aquatic Life Use in 1998 based on pH and DO violations throughout the watershed. Station 5AASM008.12 was later mistakenly listed on EPA's ""Waters Identified to Virginia for Listing Consideration During Development of the Next List"" for pH even though the segment was already 303(d) listed. The pH and DO TMDLs for these creeks are due in 2010. In the year 2002 cycle, Black Swamp and UT to Assamoosick Swamp XDW were added for DO and pH, and UT to Seacorrie Swamp XDX was added for DO and ammonia. These TMDLs are due in 2014. During the year 2006 cycle, the watershed was reclassified as Class VII swampwaters. All creeks within the watershed except for German Swamp now meet the pH criteria and should be delisted for pH. All segments are assessed as Cat. 4C for DO until the DO swampwater criteria can be developed.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Assamoosick, Seacorrie, German, Pigeon Swamps		
TMDL Group ID:	00483		
VAP-K31R_WKS02A04	Warwick Swamp	PRINCE GEORGE CO SUSSEX CO	Warwick Swamp from the Route 627 bridge to its mouth
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	8.82 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00483 Impairment Specific Comments and/or Impairment Specific VA Category VAP-K31R-01 Blackwater Swamp and Warwick Swamp were originally assessed as impaired of the Aquatic Life Use in 1998 due to DO and pH violations. During the year 2004 cycle, the impairment was continued on widespread violations: DO 9/20, pH 7/20 at the Rt. 625 bridge (5ABKR003.68). DO 3/10 at the Rt. 627 bridge (5AWKS009.11); 1994-1995 exceedances: DO 1/2, pH 1/2 at Rt. 625 bridge (5AWKS006.46); DO 1/2, pH 1/2 at Rt. 624 bridge (5AWKS003.66); DO 1/2, pH 2/2 at Rt. 460 bridge (5AWKS002.12); DO 5/7, pH 3/7 at Rt. 613 bridge (5AWKS001.00). During the 2006 cycle, the entire watershed was reclassified as Class VII swampwaters. The streams are now in compliance with the pH standard and should be delisted for pH. The streams are still impaired for DO, but should be assessed as Cat. 4C until the swampwater-specific DO criteria can be developed.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Butterwood Creek		
TMDL Group ID:	01341		
VAP-K20R_BTR02A06	Butterwood Creek	DINWIDDIE CO	Rivermile 14.59 downstream to rivermile 4.65
VA Overall AU Category:	4C		
Use	Impairment	9.90 MILES	
Aquatic Life	Oxygen, Dissolved	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	<div> <div>TMDL Group ID</div> <div>01341</div> </div> <div> <div>Impairment Specific Comments and/or Impairment Specific VA Category</div> <div>VAP-K20R-01</div> </div> <p>The mainstems of White Oak Swamp and Butterwood Swamp were initially listed as fully supporting but threatened for dissolved oxygen in the 1998 cycle. Station 5ABTR002.80 (Route 646 bridge) was identified to Virginia for listing consideration because of dissolved oxygen.</p> <p>During the year 2002 cycle, the segment was assessed partially supporting of the Aquatic Use because of pH violations (5ABTR002.80). The DO violation rate at this station was acceptable (3/38), but due to DO violations throughout the watershed (see below) the segment was extended to include Reedy Creek and Rocky Run Creek. The entire segment was listed for both pH and dissolved oxygen. The impairment was continued in the 2004 cycle.</p> <p>During the 2006 cycle, two Natural Conditions Assessment studies were performed. The results of the monitoring and study indicated that all creeks should be delisted except for:</p> <p>Butterwood Creek (DO) from rm 14.59 to 4.65; recommended for Class VII</p> <p>Cooks Branch (pH) from rm 1.08 to 0.00; recommended for Class VII</p> <p>White Oak Swamp (DO/pH) at the headwaters; recommended for cat 4C</p>

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Cooks Branch		
TMDL Group ID:	10044		
VAP-K20R_CKS02A06	Cooks Branch	DINWIDDIE CO	Rivermile 1.08 to mouth - Segment revised in 2006 to reflect results of the Natural Conditions Assessment
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment	1.08 MILES	
	pH	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	
		TMDL Group ID	Impairment Specific Comments and/or Impairment Specific VA Category
		10044	VAP-K20R-01
			The mainstems of White Oak Swamp and Butterwood Swamp were initially listed as fully supporting but threatened for dissolved oxygen in the 1998 cycle. Station 5ABTR002.80 (Route 646 bridge) was identified to Virginia for listing consideration because of dissolved oxygen.
			During the year 2002 cycle, the segment was assessed partially supporting of the Aquatic Use because of pH violations (5ABTR002.80). The DO violation rate at this station was acceptable (3/38), but due to DO violations throughout the watershed (see below) the segment was extended to include Reedy Creek and Rocky Run Creek. The entire segment was listed for both pH and dissolved oxygen. The impairment was continued in the 2004 cycle.
			During the 2006 cycle, two Natural Conditions Assessment studies were performed. The results of the monitoring and study indicated that all creeks should be delisted except for:
			Butterwood Creek (DO) from rm 14.59 to 4.65; recommended for Class VII
			Cooks Branch (pH) from rm 1.08 to 0.00; recommended for Class VII
			White Oak Swamp (DO/pH) at the headwaters; recommended for cat 4C

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Great Creek Reservoir		
TMDL Group ID:	01310		
VAP-K06L_GTC03B00	Great Creek Reservoir	BRUNSWICK CO	Manmade reservoir on Great Creek.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	305.00 ACRES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 01310 Impairment Specific Comments and/or Impairment Specific VA Category VAP-K06L-01 Great Creek Reservoir was sampled during 2002. Dissolved oxygen violations occurred in bottom waters during stratification. The Trophic State Indices were less than 60, therefore the reservoir is considered impaired due to stratification and does not require a TMDL.
TMDL Watershed Name:	Little Swamp		
TMDL Group ID:	10011		
VAP-K25R_LTS01A06	Little Swamp	SUSSEX CO	Headwaters to mouth
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	8.60 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 10011 Impairment Specific Comments and/or Impairment Specific VA Category VAP-K25R-04 During the year 2006 cycle, Raccoon Creek and its tributaries were reclassified as Class VII swampwaters. However, the DO criteria specific for swampwater is still under development. The segment is considered impaired for DO and classified as Cat. 4C based on a DO violation rate of 2/14 at stations 5ALTS001.56 and 5ALTS006.11.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Modest Creek Reservoir		
TMDL Group ID:	00744		
VAC-K14L_MDT01L00	Modest Creek Reservoir	LUNENBERG CO	Modest Creek
VA Overall AU Category:	4C		
Use	Impairment	21.22 ACRES	
Aquatic Life	Oxygen, Dissolved	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00744 Impairment Specific Comments and/or Impairment Specific VA Category

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Nebletts Mill Run and all its tributaries		
TMDL Group ID:	00465		
VAP-K23R_NBT01A98	Nebletts Mill Run and Tributaries	PRINCE GEORGE CO SUSSEX CO	Watershed upstream of Nebletts Millpond.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	32.56 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00465 Impairment Specific Comments and/or Impairment Specific VA Category VAP-K23R-03 The Nebletts Mill Run watershed has been impaired of the Aquatic Life Use due to pH and dissolved oxygen impairments in the watershed. This segment was expanded in 2002 to include the entire watershed. The TMDL for Nebletts Mill Run downstream of the Millpond was due in 2010, the TMDL for the tributaries was due in 2014. During the 2006 cycle, the watershed was reclassified a Class VII swampwater. The watershed is now in conformance with pH standards for swampwater and will be delisted for pH. However, a DO criteria specific for swampwater has not been developed yet, and the watershed will remain impaired of the DO criteria, but will be assessed as a category 4c water.
VAP-K23R_NBT02A00	Nebletts Mill Run	SUSSEX CO	Nebletts Millpond to the Nottoway River.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	3.48 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00465 Impairment Specific Comments and/or Impairment Specific VA Category VAP-K23R-03 The Nebletts Mill Run watershed has been impaired of the Aquatic Life Use due to pH and dissolved oxygen impairments in the watershed. This segment was expanded in 2002 to include the entire watershed. The TMDL for Nebletts Mill Run downstream of the Millpond was due in 2010, the TMDL for the tributaries was due in 2014. During the 2006 cycle, the watershed was reclassified a Class VII swampwater. The watershed is now in conformance with pH standards for swampwater and will be delisted for pH. However, a DO criteria specific for swampwater has not been developed yet, and the watershed will remain impaired of the DO criteria, but will be assessed as a category 4c water.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Nebletts Mill Run and all its tributaries		
TMDL Group ID:	00465		
VAP-K23R_NBT03A04	Nebletts Mill Run lower tributaries	SUSSEX CO	The tributaries of Nebletts Mill Run that enter downstream of Nebletts Millpond, excluding unnamed tributary XDV.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	4.37 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00465 Impairment Specific Comments and/or Impairment Specific VA Category VAP-K23R-03 The Nebletts Mill Run watershed has been impaired of the Aquatic Life Use due to pH and dissolved oxygen impairments in the watershed. This segment was expanded in 2002 to include the entire watershed. The TMDL for Nebletts Mill Run downstream of the Millpond was due in 2010, the TMDL for the tributaries was due in 2014. During the 2006 cycle, the watershed was reclassified a Class VII swampwater. The watershed is now in conformance with pH standards for swampwater and will be delisted for pH. However, a DO criteria specific for swampwater has not been developed yet, and the watershed will remain impaired of the DO criteria, but will be assessed as a category 4c water.
TMDL Watershed Name:	Otterdam Swamp		
TMDL Group ID:	01376		
VAP-K32R_OTR01A98	Otterdam Swamp	PRINCE GEORGE CO SURREY CO	Headwaters to Averys Pond
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	5.95 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 01376 Impairment Specific Comments and/or Impairment Specific VA Category VAP-K32R-03 Otterdam Swamp was assessed as not supporting of the Aquatic Life Use in 2002 based on numerous DO & pH water quality standard violations at confined animal feeding operation (CAFO) special study stations. The TMDLs were due in 2014. During the 2006 cycle, the watershed was reclassified as Class VII swampwater. The segment now fully meets the pH criteria and should be delisted for pH. There are still DO violations at 5AOTR001.23, 5AOTR004.31, and 5AOTR005.69 and the segment remains impaired, however it is assessed as Cat. 4C waters until the DO criteria for swampwater can be developed.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Otterdam Swamp and Three Creek		
TMDL Group ID:	00481		
VAP-K26R_OTD01A98	Otterdam Swamp	GREENSVILLE CO SUSSEX CO	Hickory Swamp to its mouth at Three Creek.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	10.66 MILES Sources: Dam or Impoundment	TMDL Group ID 00481 Impairment Specific Comments and/or Impairment Specific VA Category VAP-K26R-01 Otterdam Swamp from Hickory Swamp to its mouth, and Three Creek from Otterdam Swamp to Browns Branch were assessed not supporting of the Aquatic Life use support goal based on a dissolved oxygen violation rate of 2/9 at 5ATRE022.05. Three Creek from Slagles Lake Dam downstream to Otterdam Swamp was assessed as fully supporting with observed effects based on monitoring at 5ATRE032.25 (0/2) and a 1994 special study: DO 1/2 at 5ATRE031.85 (Route 616 bridge) DO 1/2 at 5ATRE033.87 (Route 617 bridge). During the 2006 cycle, Three Creek and its tributaries were reclassified as Class VII swampwaters and the pH criteria was adjusted. The DO impairment will be assessed as Cat. 4C impairment. The segment is no longer impaired for pH, with a violation rate of 0/9 at 5ATRE022.05, therefore the segment will be delisted for pH.
TMDL Watershed Name:	Raccoon Creek, Spring Creek		
TMDL Group ID:	00630		
VAP-K25R_SGC01A98	Spring Creek	SOUTHAMPTON CO SUSSEX CO	The entire mainstem of Spring Creek.
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	16.24 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00630 Impairment Specific Comments and/or Impairment Specific VA Category VAP-K25R-01

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Spring Branch		
TMDL Group ID:	10045		
VAP-K32R_SRN02A06	Spring Branch	SUSSEX CO	Headwaters to Spurlock Adhesives
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	0.44 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 10045 Impairment Specific Comments and/or Impairment Specific VA Category VAP-K32R-10 During the 2006 cycle, DO was added as an impairing cause for the entire mainstem of Spring Branch, however the area is classified as Class VII swampwaters, therefore it will be considered Cat. 4C until the DO criteria for swampwater can be developed.
TMDL Watershed Name:	Spring Creek, Unnamed Tributary		
TMDL Group ID:	10010		
VAP-K25R_XFB01A06	UT to Spring Creek	SUSSEX CO	Headwaters to mouth
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment Oxygen, Dissolved	4.42 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 10010 Impairment Specific Comments and/or Impairment Specific VA Category VAP-K25R-03 During the year 2006 cycle, Raccoon Creek and its tributaries were reclassified as Class VII swampwaters. However, the DO criteria specific for swampwater is still under development and station 5AXFB000.77 had a DO violation rate of 5/14 and is considered impaired for DO and classified as Cat. 4C.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	White Oak Swamp		
TMDL Group ID:	00627		
VAP-K20R_WOK02A06	White Oak Swamp	DINWIDDIE CO	The headwaters of White Oak Swamp downstream to its uppermost tributary
VA Overall AU Category:	4C		
Use	Impairment	1.67 MILES	
Aquatic Life	Oxygen, Dissolved	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	<div> <div>TMDL Group ID</div> <div>00627</div> </div> <div> <div>Impairment Specific Comments and/or Impairment Specific VA Category</div> <div>VAP-K20R-01</div> </div> <p>The mainstems of White Oak Swamp and Butterwood Swamp were initially listed as fully supporting but threatened for dissolved oxygen in the 1998 cycle. Station 5ABTR002.80 (Route 646 bridge) was identified to Virginia for listing consideration because of dissolved oxygen.</p> <p>During the year 2002 cycle, the segment was assessed partially supporting of the Aquatic Use because of pH violations (5ABTR002.80). The DO violation rate at this station was acceptable (3/38), but due to DO violations throughout the watershed the segment was extended to include Reedy Creek and Rocky Run Creek. The entire segment was listed for both pH and dissolved oxygen. The impairment was continued in the 2004 cycle.</p> <p>During the 2006 cycle, two Natural Conditions Assessment studies were performed. The segment is impaired of the Aquatic Life use due to pH and dissolved oxygen violations. The source was determined to be natural low flow conditions in the 2005 Natural Conditions studies.</p>

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	White Oak Swamp		
TMDL Group ID:	01346		
VAP-K20R_WOK02A06	White Oak Swamp	DINWIDDIE CO	The headwaters of White Oak Swamp downstream to its uppermost tributary
VA Overall AU Category:	4C		
Use	Impairment	1.67 MILES	
Aquatic Life	pH	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	<div> <div>TMDL Group ID</div> <div>01346</div> </div> <div> <div>Impairment Specific Comments and/or Impairment Specific VA Category</div> <div>VAP-K20R-01</div> </div> <p>The mainstems of White Oak Swamp and Butterwood Swamp were initially listed as fully supporting but threatened for dissolved oxygen in the 1998 cycle. Station 5ABTR002.80 (Route 646 bridge) was identified to Virginia for listing consideration because of dissolved oxygen.</p> <p>During the year 2002 cycle, the segment was assessed partially supporting of the Aquatic Use because of pH violations (5ABTR002.80). The DO violation rate at this station was acceptable (3/38), but due to DO violations throughout the watershed the segment was extended to include Reedy Creek and Rocky Run Creek. The entire segment was listed for both pH and dissolved oxygen. The impairment was continued in the 2004 cycle.</p> <p>During the 2006 cycle, two Natural Conditions Assessment studies were performed. The segment is impaired of the Aquatic Life use due to pH and dissolved oxygen violations. The source was determined to be natural low flow conditions in the 2005 Natural Conditions studies.</p>

Note: Assessment Units may extend across jurisdictional boundaries.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
York River Basin			
TMDL Watershed Name:	Matadequin Creek		
TMDL Group ID:	00653		
VAP-F13R_MDQ01B06	Unnamed Tributaries to Matadequin Creek	HANOVER CO NEW KENT CO	UTs to Matadequin Creek which are not otherwise segmented
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	16.15 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00653 Impairment Specific Comments and/or Impairment Specific VA Category VAP-F13R-01 The Natural Conditions Assessment for Matadequin Creek was completed in 2004. The report recommended that Matadequin Creek and its tributaries from the UT at rivermile 9.33 to the mouth be reclassified as Class VII swampwaters. The segments are considered Cat. 4C.
VAP-F13R_MDQ02A04	Matadequin Creek	HANOVER CO	Headwaters to confluence with Parsleys Creek
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	4.95 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 00653 Impairment Specific Comments and/or Impairment Specific VA Category VAP-F13R-01 The Natural Conditions Assessment for Matadequin Creek was completed in 2004. The report recommended that Matadequin Creek and its tributaries from the UT at rivermile 9.33 to the mouth be reclassified as Class VII swampwaters. Until the reclassification, the stream will be assessed as Cat. 4C.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
York River Basin			
TMDL Watershed Name:	Mechumps Creek		
TMDL Group ID:	00652		
VAP-F12R_CBL01A04	Campbell Creek	HANOVER CO	Headwaters to mouth
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	5.16 MILES	
	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed		
		TMDL Group ID 00652	Impairment Specific Comments and/or Impairment Specific VA Category VAP-F12R-06 A Natural Conditions Assessment for Low pH was performed during the 2006 cycle. The report attributes the low pH in Slayden Creek and its tributaries, and Mechumps Creek from Slaydens Creek to its mouth to natural swampwater conditions and recommends reclassification to Class VII swampwaters. Campbell Creek will be incorporated into the report. Until the segments are reclassified, they will be assessed as Cat. 4C.
TMDL Watershed Name:	Parsleys Creek		
TMDL Group ID:	01107		
VAP-F13R_PRS01A04	Parsleys Creek	HANOVER CO	Headwaters to mouth
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	6.21 MILES	
	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed		
		TMDL Group ID 01107	Impairment Specific Comments and/or Impairment Specific VA Category VAP-F13R-01 & 2004 fact sheet: VAP-F13R-07 The Natural Conditions Assessment for Matadequin Creek was completed in 2004. The report recommended that Matadequin Creek and its tributaries from the UT at rivermile 9.33 to the mouth be reclassified as Class VII swampwaters. Until the reclassification, the stream will be assessed as Cat. 4C. Refer to fact sheet VAP-F13R-01.

List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
York River Basin			
TMDL Watershed Name:	Sandy Valley Creek		
TMDL Group ID:	01109		
VAP-F13R_SVC01A04	Sandy Valley Creek	HANOVER CO	Headwaters to mouth
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	4.03 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 01109 Impairment Specific Comments and/or Impairment Specific VA Category VAP-F13R-08 Not supporting of the Aquatic Life Use goal based on a pH violation rate of 16/16 at Matadequin TMDL study station 8-SVC002.31 (Route 635). The Natural Conditions Assessment for Matadequin Creek was completed in 2004. The report recommended that Matadequin Creek and its tributaries from the UT at rivermile 9.33 to the mouth be reclassified as Class VII swampwaters. Until the reclassification, the stream will be assessed as Cat. 4C. Refer to fact sheet VAP-F13R-01.
TMDL Watershed Name:	Slayden Creek		
TMDL Group ID:	01102		
VAP-F12R_SLD01A04	Slayden Creek and tributaries	HANOVER CO	Headwaters to mouth at Mechumps Creek
VA Overall AU Category: Use	4C		
Aquatic Life	Impairment pH	4.52 MILES Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	TMDL Group ID 01102 Impairment Specific Comments and/or Impairment Specific VA Category VAP-F12R-04 A Natural Conditions Assessment for Low pH was performed during the 2006 cycle. The report attributes the low pH in Slayden Creek and its tributaries, and Mechumps Creek from Slaydens Creek to its mouth to natural swampwater conditions and recommends reclassification to Class VII swampwaters. Until the segments are reclassified, they will be assessed as Cat. 4C.

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List of Naturally Impaired (Category 4C) Waters in 2006

Assessment Unit ID	Waterbody Name	City / County*	Assessment Unit Description
New River Basin			
TMDL Watershed Name:	Gatewood Reservoir		
TMDL Group ID:	50029		
VAW-N17L_PKC01A02	Gatewood Reservoir	PULASKI CO	Gatewood Reservoir from its impounding structure to its backwaters.
VA Overall AU Category:	4C		
Use	Impairment	176.15 ACRES	TMDL Group ID
Aquatic Life	Oxygen, Dissolved	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed	50029
			Impairment Specific Comments and/or Impairment Specific VA Category Category 4C
Standrock Branch			
TMDL Watershed Name:	Standrock Branch		
TMDL Group ID:	00893		
VAS-N26R_SDR01A00	Standrock Branch	GILES CO	Mainstem from Kimberling Ck confluence upstream to end of PWS segment. Section 1e, Class VI, designated natural trout waters DGIF iii.
VA Overall AU Category:	4C		
Use	Impairment	1.14 MILES	TMDL Group ID
Aquatic Life	Benthic-Macroinvertebrate Bioassessments (Streams)	Sources: Drought-related Impacts	00893
			Impairment Specific Comments and/or Impairment Specific VA Category

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